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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/567,090	08/06/2009	Heinz Riess	306.45852X00	4602
	7590		EXAMINER	
1300 NORTH SEVENTEENTH STREET SUITE 1800			BERGIN, JAMES S	
ARLINGTON, VA 22209-3873			ART UNIT	PAPER NUMBER
			3641	
			MAIL DATE	DELIVERY MODE
			12/22/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/567,090	RIESS ET AL.				
Office Action Summary	Examiner	Art Unit				
	JAMES S. BERGIN	3641				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be tirr rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE!	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 06 Au	uaust 2009.					
<u> </u>	·					
,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) <u>18-31</u> is/are pending in the application	1					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>18-31</u> is/are rejected.	· <u> </u>					
7) Claim(s) is/are objected to.						
8) Claim(s) 18-31 are subject to restriction and/or	election requirement.					
Application Papers	·					
9) The specification is objected to by the Examiner.						
10) ☑ The drawing(s) filed on <u>03 February 2006</u> is/are: a) ☑ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) 🔀 Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)⊠ All b) ☐ Some * c) ☐ None of:						
 Certified copies of the priority documents have been received. 						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date 3) Notice of Draftsperson's Patent Drawing Review (PTO-948) 13) Notice of Information Disclosure Statement(s) (PTO/SB/08) 5) Notice of Information Disclosure Statement(s) (PTO/SB/08)						
3) M Intermation Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5/01/2007.	5) Notice of Informating 6) Other:	atent Application				
S. Patent and Trademark Office	-, <u>-</u> -					

DETAILED ACTION

Election/Restrictions

1. This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

Species A, the embodiment depicted in Fig. 1

Species B, the embodiment depicted in Fig. 2

Species C, the embodiment depicted in Fig. 3

Species D, the embodiment depicted in Fig. 4

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise require all the limitations of an allowed generic claim. Currently, the following claim(s) are generic: claim 1 appears to be generic.

As provided in 37 CFR 1.475(a), a national stage application shall relate to one invention only or to a group of inventions so linked as to form a single general inventive concept ("requirement of unity of invention"). Where a group of inventions is claimed in

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a national stage application, the requirement of unity of invention shall be fulfilled only when there is a technical relationship among those inventions involving one or more of the same or corresponding special technical features. The expression "special technical features" shall mean those technical features that define a contribution which each of the claimed inventions, considered as a whole, makes over the prior art.

The determination whether a group of inventions is so linked as to form a single general inventive concept shall be made without regard to whether the inventions are claimed in separate claims or as alternatives within a single claim. See 37 CFR 1.475(e).

2. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse. Traversal must be presented at the time of election in order to be considered timely. Failure to timely traverse the requirement will result in the loss of right to petition under 37 CFR 1.144. If claims are added after the election, applicant must indicate which of these claims are readable on the elected invention or species.

Should applicant traverse on the ground that the inventions have unity of invention (37 CFR 1.475(a)), applicant must provide reasons in support thereof.

Applicant may submit evidence or identify such evidence now of record showing the inventions to be obvious variants or clearly admit on the record that this is the case.

Where such evidence or admission is provided by applicant, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

- 3. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).
- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claim 18 is rejected under 35 U.S.C. 103(a) as being unpatentable over Valdez et al. (WO 97/20185).

It discloses (see page 4, line 13 - page 5, line 28; page 9, line 1 - page 10, line 27; figures 1, 4;) : a dual core projectile (10) as a jacketed projectile, the projectile having two cores (12, 20), the one, solid core (20) being made of a metallic material suitable for projectiles (page 9, lines I-4), and the second core (12) being made of

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powdered metallic materials (page 10, lines 14-17), the grain size of the powder ranging from 5 ~m to 1 mm (page 10, lines 20-22), and the powder being compressed without leaving any cavities. The subject matter of claim 1 therefore differs from the Valdez et al. dual core projectile in that the second core is made of powdered ceramic materials. The examiner takes official notice that powdered ceramic materials are a known material in the bullet prior art. It would have been obvious to one of ordinary skill in the art at the time that the invention was made to substitute a powdered ceramic material in the place of the powdered metallic material in the Valdez et al. bullet because substitution of one known element for another would have yielded predictable results to one of ordinary skill in the art at the time of the invention § 103. KSR Int'l. Co. v. Teleflex Inc., 127 S.Ct. 1742 (2007).

6. Claims 19-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Valdez et al. (WO 97/20185) in view of Beal (WO 00/73728) and Chene (EP 0 997 700) and Hadler (DE 102 39 910) and Dinkha et al. (US 4,939,996).

Regarding claims 19-31, all the claimed elements were known in the prior art, and one skilled in the art at the time of the invention could have combined the elements of Valdez et al. in view of Beal and Chene and Hadler and Dinkha et al. as claimed in claims 19-31, by known methods with no change in their respective functions, and the combination would have yielded predictable results to a skilled artisan at the time the invention was made under § 103. *KSR Int'l. Co. v. Teleflex Inc.*, 127 S.Ct. 1742 (2007).

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Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See the attached PTO-FORM 892.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to JAMES S. BERGIN whose telephone number is (571)272-6872. The examiner can normally be reached on Monday - Wednesday and Friday, 8.30 - 5.30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Carone can be reached on 571-272-6873. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/James S. Bergin/ Primary Examiner, Art Unit 3641 Application/Control Number: 10/567,090

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